

# propyl hydrodisulfide

<b>Inchi:</b>	InChI=1S/C3H8S2/c1-2-3-5-4/h4H,2-3H2,1H3
<b>InchiKey:</b>	HNXSKKGXEJGBFT-UHFFFAOYSA-N
<b>Formula:</b>	C3H8S2
<b>SMILES:</b>	CCCSS
<b>Mol. weight [g/mol]:</b>	108.23
<b>CAS:</b>	137363-84-9

## Physical Properties

Property code	Value	Unit	Source
gf	36.89	kJ/mol	Joback Method
hf	-24.90	kJ/mol	Joback Method
hfus	11.70	kJ/mol	Joback Method
hvap	35.83	kJ/mol	Joback Method
log10ws	-2.02		Crippen Method
logp	1.974		Crippen Method
mcpvol	85.830	ml/mol	McGowan Method
pc	4924.59	kPa	Joback Method
rinpol	808.00		NIST Webbook
rinpol	865.20		NIST Webbook
rinpol	865.20		NIST Webbook
rinpol	808.00		NIST Webbook
tb	399.68	K	Joback Method
tc	620.54	K	Joback Method
tf	194.43	K	Joback Method
vc	0.311	m3/kmol	Joback Method

## Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	139.49	J/molxK	399.68	Joback Method
cpg	147.23	J/molxK	436.49	Joback Method
cpg	154.64	J/molxK	473.30	Joback Method
cpg	161.74	J/molxK	510.11	Joback Method
cpg	168.51	J/molxK	546.92	Joback Method

cpg	174.97	J/mol×K	583.73	Joback Method
cpg	181.11	J/mol×K	620.54	Joback Method

## Sources

<b>NIST Webbook:</b>	<a href="http://webbook.nist.gov/cgi/cbook.cgi?ID=C137363849&amp;Units=SI">http://webbook.nist.gov/cgi/cbook.cgi?ID=C137363849&amp;Units=SI</a>
<b>Crippen Method:</b>	<a href="http://pubs.acs.org/doi/abs/10.1021/ci9903071">http://pubs.acs.org/doi/abs/10.1021/ci9903071</a>
<b>Crippen Method:</b>	<a href="https://www.chemeo.com/doc/models/crippen_log10ws">https://www.chemeo.com/doc/models/crippen_log10ws</a>
<b>Joback Method:</b>	<a href="https://en.wikipedia.org/wiki/Joback_method">https://en.wikipedia.org/wiki/Joback_method</a>
<b>McGowan Method:</b>	<a href="http://link.springer.com/article/10.1007/BF02311772">http://link.springer.com/article/10.1007/BF02311772</a>

## Legend

<b>cpg:</b>	Ideal gas heat capacity
<b>gf:</b>	Standard Gibbs free energy of formation
<b>hf:</b>	Enthalpy of formation at standard conditions
<b>hfus:</b>	Enthalpy of fusion at standard conditions
<b>hvac:</b>	Enthalpy of vaporization at standard conditions
<b>log10ws:</b>	Log10 of Water solubility in mol/l
<b>logp:</b>	Octanol/Water partition coefficient
<b>mccvol:</b>	McGowan's characteristic volume
<b>pc:</b>	Critical Pressure
<b>rinpol:</b>	Non-polar retention indices
<b>tb:</b>	Normal Boiling Point Temperature
<b>tc:</b>	Critical Temperature
<b>tf:</b>	Normal melting (fusion) point
<b>vc:</b>	Critical Volume

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